

In Re Application of Stoll, et al  
Serial No. 09/489,982

## IN THE CLAIMS

Please amend claims 14 and 21 as follows:

1. (Previously Amended, Reprinted without change) A method for conveying a prescribed medication to a patient, the method comprising the steps of:
- providing a digital prescription carrier including a read/write memory and an infrared communication interface;
  - encrypting prescription data defining a prescription so that the data would be indecipherable without appropriate computer decryption software;
  - uploading, by a prescriber, the prescription data into said carrier through said interface, said prescription calling for the use of a selected medication of a selected dosage on a selected schedule;
  - transferring said carrier by a patient to a pharmacy;
  - downloading said prescription data from said carrier through said interface at said pharmacy;
  - decrypting said prescription data from indecipherable form into a form that would be decipherable;
  - and
  - filling said prescription at said pharmacy, wherein, the uploading and downloading steps are each accomplished by a data transfer that occurs without physical contact.
2. (Previously Amended; reprinted without change) A method as set forth in Claim 1, further including the step of entering a first access code into said carrier to enable access to said prescription data prior to said uploading step.
3. (Previously Amended; reprinted without change) A method as set forth in Claim 1, further including the steps of:

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- (a) operating a digital clock/calendar within said carrier to generate internal values of time and date;
- (b) providing said carrier with a prescription compliance switch interfaced to said clock/calendar;
- (c) operating said compliance switch by a patient upon taking a medication specified by said prescription; and
- (d) storing in a compliance memory within said carrier respective values of time and date occurring upon operation of said compliance switch.

4. (Previously Amended; reprinted without change) A method as set forth in Claim 3, further including the steps of:

- (a) providing said carrier with an annunciator element;
- (b) entering into said carrier by said pharmacist schedule data defining a prescription schedule comprising a plurality of sets of schedule times and dates at which a patient is to take a medication specified by prescription;
- (c) periodically comparing within said carrier said internal values of time and date with said schedule times and dates; and
- (d) activating said annunciator element upon said internal values of time and date matching a set of said schedule time and schedule date.

5. (Previously Amended; reprinted without change) A method as set forth in Claim 2, further including the step of entering a second access code into said carrier to enable access to said prescription data prior to said downloading step.

6. (Previously Amended; reprinted without change) A method as set forth in Claim 1, further including the steps of:

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- (a) uploading prescription data defining a plurality of prescriptions for a plurality of medications into said carrier through said interface;
- (b) downloading said prescription data through said interface; and
- (c) filling each of said prescriptions defined by said prescription data.

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7. (Previously Amended; reprinted without change) A method for conveying a prescribed medication to a patient, the method comprising the steps of:

providing a digital prescription carrier including a read/write memory and a communication interface;

entering a first access code into said carrier to enable software access thereto;

uploading prescription data defining a prescription, said data being in a wholly intangible digital form, into said carrier through said interface, said prescription calling for the use of a selected medication of a selected dosage on a selected schedule;

encrypting said prescription data so that said data would be indecipherable without appropriate computer decryption software;

transferring said carrier by a patient to a pharmacy;

entering a second access code into said carrier to enable software access thereto;

downloading said prescription data, said data being in a wholly intangible digital form, from said carrier through said interface at said pharmacy;

decrypting the prescription data to convert the data into an intelligible form; and

filling said prescription by said pharmacist.

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8. (Previously Amended; reprinted without change) A method as set forth in Claim 7, further including the steps of:

- (a) operating a digital clock/calendar within said carrier to generate internal values of time and date;
- (b) providing said carrier with a prescription compliance switch interfaced to said clock/calendar;
- (c) operating said compliance switch by a patient upon taking a medication specified by said prescription; and
- (d) storing in a compliance memory within said carrier respective values of time and date occurring upon operation of said compliance switch.

9. (Previously Amended; reprinted without change) A method as set forth in Claim 8, further including the steps of:

- (a) providing said carrier with an annunciator element;
- (b) entering into said carrier by said pharmacist schedule data defining a prescription schedule comprising a plurality of sets of schedule times and dates at which a patient is to take a medication specified by said prescription;
- (c) periodically comparing within said carrier said internal values of time and date with said schedule times and dates; and
- (d) activating said annunciator element upon said internal values of time and date matching a set of said schedule time and schedule date.

10. (Previously Amended; reprinted without change) A method as set forth in Claim 9 wherein said annunciator element includes a vibrating element.

11. (Previously Amended; reprinted without change) A method as set forth in Claim 7, wherein said communication interface includes an infrared data communication interface.

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12. (Previously Amended; reprinted without change) A method as set forth in Claim 7, further including the steps of:

- (a) uploading, by a physician, prescription data defining a plurality of prescriptions for a plurality of medications to be taken on a plurality of schedules into said carrier through said interface;
- (b) downloading, by a pharmacist, said prescription data through said interface; and
- (c) filling each of said prescriptions defined by said prescription data.

13. (Previously Amended; reprinted without change) A method as set forth in Claim 7, further including the steps of:

- (a) providing said carrier with an annunciator element;
- (b) entering into said carrier, by said pharmacist for each of said prescriptions, schedule data defining a respective prescription schedule comprising a plurality of sets of schedule times and dates at which a patient is to take a medication specified by the respective prescription;
- (c) periodically comparing within said carrier said internal values of time and date with said schedule times and dates; and
- (d) activating said annunciator element upon said internal values of time and date matching a set of said schedule time and date.

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14.(THREE TIMES AMENDED) A digital prescription carrier apparatus comprising:

a carrier housing;  
a central processing unit (CPU) positioned within said housing;  
a display device positioned on said housing, interfaced to said CPU, and capable of displaying alphanumeric characters;  
input/output (I/O) interface circuitry positioned in said housing and interfaced to said CPU, said I/O circuitry being capable of interfacing said CPU to an external computer to exchange data therewith;  
data memory circuitry positioned within said housing;  
encrypting software for scrambling prescription data that represents a prescription into a form that is unintelligible and unreadable, said encrypting software further capable of converting encrypted prescription data to a readable form; and,  
prescription software stored in said memory to be processed by said CPU,

wherein, the CPU and the I/O circuitry cooperate to enable uploading, by a prescriber, of the prescription data into said memory circuitry, and downloading of said prescription data at a pharmacy.

15.(Previously Amended; reprinted without change) A digital prescription carrier apparatus as set forth in Claim 14, further including:

- (a) a real-time clock/calendar positioned within said housing and interfaced to said CPU;
- (b) an alert device positioned within said housing and interfaced to said CPU; and
- (c) said prescription software cooperating with said prescription data, said clock/calendar, and said alert device to cause activation of

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said alert device when a dose of medication prescribed by said prescription data is to be taken.

16.(Previously Amended; reprinted without change) A digital prescription carrier apparatus as set forth in Claim 15, further including:

- (a) a compliance switch positioned on said housing and interfaced to said CPU; and
- (b) said prescription software cooperating with said compliance switch to record in said data memory circuitry an occurrence of the operation of said compliance switch subsequent to activation of said alert device.

17.(Previously Amended; reprinted without change) A digital prescription carrier apparatus as set forth in claim 15 wherein said alert device includes at least one of:

- (a) a sonic alert device interfaced to said CPU; or
- (b) a vibrating alert device interfaced to said CPU.

18.(Previously Amended; reprinted without change) A digital prescription carrier apparatus as set forth in Claim 14, further including:

- (a) a plurality of key switches positioned on said housing and interfaced to said CPU;
- (b) said prescription software causing uploaded prescription data to generate a schedule of dose times for a medication represented by said prescription data; and
- (c) operation of said key switches enabling review of said schedule of dose times for said medication in cooperation with said display device.

19.(Previously Amended; reprinted without change) A digital prescription carrier apparatus as set forth in Claim 14 wherein said I/O interface circuitry includes an infrared data link.

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20. (Reprinted without change) A method as set forth in Claim 1, further including the step of entering a second access code into said carrier to enable access to said prescription data prior to said downloading step.

20 21 (AMENDED TO CORRECT AN INCORRECT CLAIM NUMBER;  
CLAIM REPRINTED WITHOUT CHANGE)

A method as set forth in Claim 2, further including the steps of:

endowing a prescriber with the first access code;

updating, by a prescriber, of prescription information including at least

one of

deleting a piece of stored prescription data;

adding a new piece of stored prescription data;

changing a piece of stored prescription data;

endowing the pharmacist with the second access code; and,

updating, by the pharmacist, of prescription information including at least

one of

noting the filling of a prescription;

reducing the number of refills remaining for a piece of

stored prescription data; or,

updating patient information.